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# RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/014,774

DATE: 04/02/2002 8-5  
TIME: 14:12:54

Input Set : A:\seqlist.txt.txt

Output Set: N:\CRF3\04022002\J014774.raw

```

4 <110> APPLICANT: D'Azzo, Alessandra
5     Bonglovanni, Antonella
6     Nastasi, Tommaso
8 <120> TITLE OF INVENTION: Protein Specific for Cardiac and Skeletal Muscle
10 <130> FILE REFERENCE: 2427/1F509-US1
12 <140> CURRENT APPLICATION NUMBER: US 10/014,774
13 <141> CURRENT FILING DATE: 2001-10-29
15 <150> PRIOR APPLICATION NUMBER: PCT/US00/11900
16 <151> PRIOR FILING DATE: 2000-04-28
18 <150> PRIOR APPLICATION NUMBER: US 60/131,814
19 <151> PRIOR FILING DATE: 1999-04-29
21 <160> NUMBER OF SEQ ID NOS: 24
23 <170> SOFTWARE: FastSEQ for Windows Version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1036
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus musculus
30 <400> SEQUENCE: 1
31 cctgtgtgca cggcttggag atggctgctc cctccgaaca cgtaggactg ggtgccccac      60
32 ggagccctgc ggcgccagag cccctccca cccgcttcca ccaagtgcac ggagccaaca      120
33 tccgcatgga cccctcagga acgcgagcca cagcgctgga gagtttcgcc cacggtgtgt      180
34 gcttcagtcg tgagccctcg gcccccggcc aggtatttct agtggaatt gaggaataag      240
35 agctgggctg gtgcggggcac ctacgtcttg gcctgaccgc tctggatccc gccagtctgg      300
36 ccgctgtacc cgagttttca ctgcctgact tggtcagcct tggccacagt tgggtcttcg      360
37 ctatcacacg ccaccacaac cgtgtgcccc gggaagggtca accagaagcg gaggcagcgg      420
38 tccccagtg tccccaagcc ctactggttg aacctatct gcgcacgcag cagttccgaa      480
39 ttcccgggga cgtctgtgtg ggccgcagcc ggccagggtt ttatagccac ctcttagatc      540
40 agctctatga acaaaacgtg ctgcctccta cagcgcgccg aagccgcttg ggtgttctct      600
41 tctgcccccg tgaggatggg accgccgaca tgcacatcat catcaacggg gaggacatgg      660
42 gccctagcgc cggggggctg ccagctgctc agccctccta cgctgtggtg gatgtgtttg      720
43 cttccaccaa gagcgtgctg ctggtccagc tggagtatgg ctgtccatct ctgcagactc      780
44 tgtgccgact agtgatccag aagagggttg tacacaggct ggccattgat gtgtccacc      840
45 tgcccaaagg actgaaggac ttctgcaagt acgaatgaac gaatgaacgc ctgtctgttg      900
46 ccaccagagc aaagtccccg gtggtgcgcc ctgcctctag agaagtggct agtctgaagc      960
47 tggtcgcaca gctcacatc agggctggaa ataaatagag ccgatgtgga tgttctgaga      1020
48 aaaaaaaaaa aaaaaa
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 285
52 <212> TYPE: PRT
53 <213> ORGANISM: Mus musculus
55 <400> SEQUENCE: 2
56 Met Ala Ala Pro Ser Glu His Val Gly Leu Gly Ala Pro Arg Ser Pro
57 1 5 10 15

```

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```

58 Ala Arg Pro Glu Pro Pro Pro Thr Arg Phe His Gln Val His Gly Ala
59          20          25          30
60 Asn Ile Arg Met Asp Pro Ser Gly Thr Arg Ala Thr Arg Val Glu Ser
61          35          40          45
62 Phe Ala His Gly Val Cys Phe Ser Arg Glu Pro Leu Ala Pro Gly Gln
63          50          55          60
64 Val Phe Leu Val Glu Ile Glu Glu Lys Glu Leu Gly Trp Cys Gly His
65          65          70          75          80
66 Leu Arg Leu Gly Leu Thr Ala Leu Asp Pro Ala Ser Leu Ala Ala Val
67          85          90          95
68 Pro Glu Phe Ser Leu Pro Asp Leu Val Ser Leu Gly His Ser Trp Val
69          100         105         110
70 Phe Ala Ile Thr Arg His His Asn Arg Val Pro Arg Glu Gly Gln Pro
71          115         120         125
72 Glu Ala Glu Ala Ala Val Pro Ser Gly Pro Gln Ala Leu Leu Val Glu
73          130         135         140
74 Pro Tyr Leu Arg Ile Glu Gln Phe Arg Ile Pro Arg Asp Arg Leu Val
75          145         150         155         160
76 Gly Arg Ser Arg Pro Gly Leu Tyr Ser His Leu Leu Asp Gln Leu Tyr
77          165         170         175
78 Glu Gln Asn Val Leu Pro Pro Thr Ala Arg Arg Ser Arg Leu Gly Val
79          180         185         190
80 Leu Phe Cys Pro Arg Glu Asp Gly Thr Ala Asp Met His Ile Ile Ile
81          195         200         205
82 Asn Gly Glu Asp Met Gly Pro Ser Ala Arg Gly Leu Pro Ala Ala Gln
83          210         215         220
84 Pro Leu Tyr Ala Val Val Asp Val Phe Ala Ser Thr Lys Ser Val Arg
85          225         230         235         240
86 Leu Val Gln Leu Glu Tyr Gly Leu Pro Ser Leu Gln Thr Leu Cys Arg
87          245         250         255
88 Leu Val Ile Gln Lys Arg Val Val His Arg Leu Ala Ile Asp Val Leu
89          260         265         270
90 His Leu Pro Lys Gly Leu Lys Asp Phe Cys Lys Tyr Glu
91          275         280         285

```

93 &lt;210&gt; SEQ ID NO: 3

94 &lt;211&gt; LENGTH: 970

95 &lt;212&gt; TYPE: DNA

96 &lt;213&gt; ORGANISM: Homo sapiens

98 &lt;400&gt; SEQUENCE: 3

```

99 cctgccctat ggccgagaga tggctgctgc ctccgagccc gtggattcgg gtgcactctg      60
100 gggactcgag cgcccggagc cccctcccac ccgcttccat cgggtgcacg gtgccaacat      120
101 ccgcgtggac ccctctggga cgcggggccac acgcgtggag agcttcgccc acggcgtgtg      180
102 cttcagccgc gagccgctgg ccccgggcca ggtcttctctg gtcgagatcg aggagaaaga      240
103 gctgggctgg tgcggacatc tgcgtctcgg tctgaccgcg ctggaccccg ccagtctggc      300
104 ccccgttccc gagttttctc tgcccgatct ggtcaacctg ggccacacct ggggtcttcgc      360
105 catcacgcgc caccacaacc gcgtgccccg ggagggcgcg ccggaggcgg aggcagcggc      420
106 cccagccga cctccaacc cctcgttggg accatatctg cgcattgagc agtttcgcat      480
107 tcccgggac cgcttggtgg gccgcagcgg gccagggtc tacagccatc tcttggaacca      540
108 gctctatgag ctgaacgtgc tgctccgac cgcgcgcgct agccgcctgg gtgtcctctt      600

```

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```

109 ttgccgcgc cccgatggca cggccgacat gcacatcatc atcaacggcg aggacatggg 660
110 cccgagcgcc cggggactgc cagctgcgca gccctctac gcggtggtgg acgtgtttgc 720
111 ttccacaaag agcgtgcgcc ttgtccagct cgagtatggc ttgccatccc tgcagactct 780
112 gtgccgccta gtgatacaaa ggagcatggg gcaccggctg gccattgatg ggctccacct 840
113 gcccaaagaa cttaaggatt tctgcaagta tgagtgaaga cccacagtgc accagagcac 900
114 agctgcatcc tggagcccca gacctgtggc tggctggtcc gaagttggcc acattgctgc 960
115 cagccaagac 970
117 <210> SEQ ID NO: 4
118 <211> LENGTH: 285
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 4
123 Met Ala Ala Ala Ser Glu Pro Val Asp Ser Gly Ala Leu Trp Gly Leu
124 1 5 10 15
125 Glu Arg Pro Glu Pro Pro Pro Thr Arg Phe His Arg Val His Gly Ala
126 20 25 30
127 Asn Ile Arg Val Asp Pro Ser Gly Thr Arg Ala Thr Arg Val Glu Ser
128 35 40 45
129 Phe Ala His Gly Val Cys Phe Ser Arg Glu Pro Leu Ala Pro Gly Gln
130 50 55 60
131 Val Phe Leu Val Glu Ile Glu Glu Lys Glu Leu Gly Trp Cys Gly His
132 65 70 75 80
133 Leu Arg Leu Gly Leu Thr Ala Leu Asp Pro Ala Ser Leu Ala Pro Val
134 85 90 95
135 Pro Glu Phe Ser Leu Pro Asp Leu Val Asn Leu Gly His Thr Trp Val
136 100 105 110
137 Phe Ala Ile Thr Arg His His Asn Arg Val Pro Arg Glu Gly Arg Pro
138 115 120 125
139 Glu Ala Glu Ala Ala Ala Pro Ser Arg Pro Pro Thr Leu Leu Val Glu
140 130 135 140
141 Pro Tyr Leu Arg Ile Glu Gln Phe Arg Ile Pro Arg Asp Arg Leu Val
142 145 150 155 160
143 Gly Arg Ser Arg Pro Gly Leu Tyr Ser His Leu Leu Asp Gln Leu Tyr
144 165 170 175
145 Glu Leu Asn Val Leu Pro Pro Thr Ala Arg Arg Ser Arg Leu Gly Val
146 180 185 190
147 Leu Phe Cys Pro Arg Pro Asp Gly Thr Ala Asp Met His Ile Ile Ile
148 195 200 205
149 Asn Gly Glu Asp Met Gly Pro Ser Ala Arg Gly Leu Pro Ala Ala Gln
150 210 215 220
151 Pro Leu Tyr Ala Val Val Asp Val Phe Ala Ser Thr Lys Ser Val Arg
152 225 230 235 240
153 Leu Val Gln Leu Glu Tyr Gly Leu Pro Ser Leu Gln Thr Leu Cys Arg
154 245 250 255
155 Leu Val Ile Gln Arg Ser Met Val His Arg Leu Ala Ile Asp Gly Leu
156 260 265 270
157 His Leu Pro Lys Glu Leu Lys Asp Phe Cys Lys Tyr Glu
158 275 280 285
160 <210> SEQ ID NO: 5

```

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```

161 <211> LENGTH: 91
162 <212> TYPE: PRT
163 <213> ORGANISM: Mus musculus
165 <400> SEQUENCE: 5
166 Arg Ser Pro Ala Arg Pro Glu Pro Pro Pro Thr Arg Phe His Gln Val
167   1           5           10           15
168 His Gly Ala Asn Ile Arg Met Asp Pro Ser Gly Thr Arg Ala Thr Arg
169           20           25           30
170 Val Glu Ser Phe Ala His Gly Val Cys Phe Ser Arg Glu Pro Leu Ala
171           35           40           45
172 Pro Gly Gln Val Phe Leu Val Glu Ile Glu Glu Lys Glu Leu Gly Trp
173           50           55           60
174 Cys Gly His Leu Arg Leu Gly Leu Thr Ala Leu Asp Pro Ala Ser Leu
175 65           70           75           80
176 Ala Ala Val Pro Glu Phe Ser Leu Pro Asp Leu
177           85           90
179 <210> SEQ ID NO: 6
180 <211> LENGTH: 94
181 <212> TYPE: PRT
182 <213> ORGANISM: Drosophila virilis
184 <400> SEQUENCE: 6
185 Arg Ser Pro Ser Ser Cys Pro Asn Asn Leu Pro Pro Leu Gln Phe His
186   1           5           10           15
187 Thr Val His Gly Asp Asn Ile Arg Ile Ser Arg Asp Gly Thr Leu Ala
188           20           25           30
189 Arg Arg Phe Glu Ser Phe Cys Arg Ala Ile Thr Phe Ser Ala Arg Pro
190           35           40           45
191 Val Arg Ile Asn Glu Arg Ile Cys Val Lys Phe Ala Glu Ile Ser Asn
192           50           55           60
193 Asn Trp Asn Gly Gly Ile Arg Phe Gly Phe Thr Ser Asn Asp Pro Ala
194 65           70           75           80
195 Ser Leu Glu Gly Ala Leu Pro Lys Tyr Ala Cys Pro Asp Leu
196           85           90
198 <210> SEQ ID NO: 7
199 <211> LENGTH: 26
200 <212> TYPE: PRT
201 <213> ORGANISM: Mus musculus
203 <400> SEQUENCE: 7
204 Leu Tyr Ala Val Val Asp Val Phe Ala Ser Thr Lys Ser Val Arg Leu
205   1           5           10           15
206 Val Gln Leu Glu Tyr Gly Leu Pro Ser Leu
207           20           25
209 <210> SEQ ID NO: 8
210 <211> LENGTH: 24
211 <212> TYPE: PRT
212 <213> ORGANISM: Drosophila virilis
214 <400> SEQUENCE: 8
215 Leu Trp Ala Phe Leu Asp Val Tyr Gly Ser Thr Gln Ser Leu Arg Met
216   1           5           10           15

```

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```

217 Phe Arg Gln Gln Leu Pro Asn Met
218                20
220 <210> SEQ ID NO: 9
221 <211> LENGTH: 71
222 <212> TYPE: PRT
223 <213> ORGANISM: Mus musculus
225 <400> SEQUENCE: 9
226 Pro Thr Arg Phe His Gln Val His Gly Ala Asn Ile Arg Met Asp Pro
227   1                5                10                15
228 Ser Gly Thr Arg Ala Thr Arg Val Glu Ser Phe Ala His Gly Val Cys
229                20                25                30
230 Phe Ser Arg Glu Pro Leu Ala Pro Gly Gln Val Phe Leu Val Glu Ile
231                35                40                45
232 Glu Glu Lys Glu Leu Gly Trp Cys Gly His Leu Arg Leu Gly Leu Thr
233   50                55                60
234 Ala Leu Asp Pro Ala Ser Leu
235   65                70
237 <210> SEQ ID NO: 10
238 <211> LENGTH: 71
239 <212> TYPE: PRT
240 <213> ORGANISM: Drosophila virilis
242 <400> SEQUENCE: 10
243 Pro Val Pro Phe His Ile Thr Lys Gly Arg Asn Val Arg Leu Ser His
244   1                5                10                15
245 Asp Arg Phe Val Ala Ser Arg Thr Glu Ser Asp Phe Cys Gln Gly Tyr
246                20                25                30
247 Val Phe Thr Ala Arg Pro Ile Arg Ile Gly Lys Leu Ile Val Gln Val
248                35                40                45
249 Leu Lys Thr Glu Gln Met Tyr Val Gly Ala Leu Ala Leu Gly Leu Thr
250   50                55                60
251 Ser Cys Asn Pro Ala Leu Leu
252   65                70
254 <210> SEQ ID NO: 11
255 <211> LENGTH: 35
256 <212> TYPE: PRT
257 <213> ORGANISM: Mus musculus
259 <400> SEQUENCE: 11
260 Ile Asn Gly Glu Asp Met Gly Pro Ser Ala Arg Gly Leu Pro Ala Ala
261   1                5                10                15
262 Gln Pro Leu Tyr Ala Val Val Asp Val Phe Ala Ser Thr Lys Ser Val
263                20                25                30
264 Arg Leu Val
265                35
267 <210> SEQ ID NO: 12
268 <211> LENGTH: 35
269 <212> TYPE: PRT
270 <213> ORGANISM: Drosophila virilis
272 <400> SEQUENCE: 12
273 Ile Asn Asn Glu Glu Lys Gly Val Ile Leu Ser Gly Ile Asp Thr Arg

```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

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Input Set : A:\seqlist.txt.txt

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L:429 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24

L:429 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24

L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24